t15_complex2 (TMJGmPfkY8vdW5vyt4EMbaiEEjEZWb41DBn)

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Let $v1\_xcmplx\_0 : \iota \Rightarrow o$ be given. Let $k1\_comptrig : \iota \Rightarrow \iota$ be given. Let $k6\_numbers : \iota$ be given. Let $k17\_complex1 : \iota \Rightarrow \iota$ be given. Let $r1\_xxreal\_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v1\_xreal\_0 : \iota \Rightarrow o$ be given. Let $k21\_sin\_cos : \iota \Rightarrow \iota$ be given. Let $np\_\_1 : \iota$ be given. Let $k18\_sin\_cos : \iota \Rightarrow \iota$ be given. Let $k20\_sin\_cos : \iota \Rightarrow \iota$ be given. Let $k4\_xcmplx\_0 : \iota \Rightarrow \iota$ be given. Let $k17\_sin\_cos : \iota \Rightarrow \iota$ be given. Let $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1\_numbers : \iota$ be given. Let $k2\_xcmplx\_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k8\_real\_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k3\_xcmplx\_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k7\_complex1 : \iota$ be given. Let $k16\_complex1 : \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0.(v1\_xcmplx\_0\ X0) \Rightarrow (r1\_xxreal\_0\ k6\_numbers\ (k17\_complex1\ X0)) \tag{1}$$

Assume the following.

$$\forall X0.(v1\_xreal\_0\ X0) \Rightarrow ((k21\_sin\_cos\ k6\_numbers = np\_\_1) \wedge ((k18\_sin\_cos\ k6\_numbers = k6\_numbers) \wedge ((k20\_sin\_cos\ (k4\_xcmplx\_0\ X0) = k20\_sin\_cos\ X0) \wedge (k17\_sin\_cos\ (k4\_xcmplx\_0\ X0) = k4\_xcmplx\_0\ (k17\_sin\_cos\ X0))))) \tag{2}$$

Assume the following.

$$\forall X0.(m1\_subset\_1\ X0\ k1\_numbers) \Rightarrow ((r1\_xxreal\_0\ k6\_numbers\ X0) \Rightarrow (k1\_comptrig\ X0 = k6\_numbers)) \tag{3}$$

Assume the following.

$$\forall X0.(v1\_xcmplx\_0\ X0) \Rightarrow (X0 = k2\_xcmplx\_0\ (k8\_real\_1\ (k17\_complex1\ X0)\ (k21\_sin\_cos\ (k1\_comptrig\ X0)))\ (k3\_xcmplx\_0\ (k8\_real\_1\ (k17\_complex1\ X0)\ (k18\_sin\_cos\ (k1\_comptrig\ X0)))\ k7\_complex1)) \tag{4}$$

Assume the following.

$$\forall X0.(v1\_xcmplx\_0\ X0) \Rightarrow (k17\_complex1\ (k17\_complex1\ X0) = k17\_complex1\ X0) \tag{5}$$

Assume the following.

$$\forall X0.(v1\_xcmplx\_0\ X0) \Rightarrow (m1\_subset\_1\ (k17\_complex1\ X0)\ k1\_numbers) \tag{6}$$

Assume the following.

$$\forall X0.(v1\_xcmplx\_0\ X0) \Rightarrow (v1\_xreal\_0\ (k16\_complex1\ X0)) \tag{7}$$

Assume the following.

$$\forall X0.(m1\_subset\_1\ X0\ k1\_numbers) \Rightarrow (v1\_xcmplx\_0\ X0) \tag{8}$$

Theorem 1

$$\forall X0.(v1\_xcmplx\_0\ X0) \Rightarrow ((k1\_comptrig\ X0 = k6\_numbers) \Leftrightarrow (X0 = k17\_complex1\ X0))$$